

```
>> A
```

```
A =
```

```
1 0 1 0 1 0 1 0
0 1 0 1 0 1 0 1
1 1 0 0 1 1 0 0
0 0 1 1 0 0 1 1
1 1 1 1 0 0 0 0
0 0 0 0 1 1 1 1
```

```
>> transpose(A)
```

```
ans =
```

```
1 0 1 0 1 0
0 1 1 0 1 0
1 0 0 1 1 0
0 1 0 1 1 0
1 0 1 0 0 1
0 1 1 0 0 1
1 0 0 1 0 1
0 1 0 1 0 1
```

```
>> transpose(A)*A(:,1)
```

```
ans =
```

```
3
2
2
1
2
1
1
1
0
```

```
>> transpose(A)*A
```

```
ans =
```

```
3 2 2 1 2 1 1 0
2 3 1 2 1 2 0 1
2 1 3 2 1 0 2 1
1 2 2 3 0 1 1 2
2 1 1 0 3 2 2 1
1 2 0 1 2 3 1 2
1 0 2 1 2 1 3 2
0 1 1 2 1 2 2 3
```